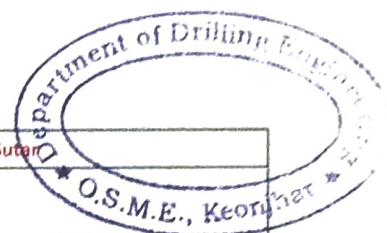
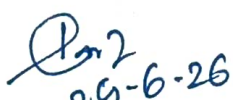


Department of Drilling Engineering
WINTER-2026, WELL CONTROL TECHNOLOGY LAB Lesson Plan



Branch: DRILLING ENGINEERING				Faculty:- Er.Tapas Ranjan Sutar			
Subject: WELL CONTROL TECHNOLOGY LAB./DEPE305(B)		No of periods: 4hrs/week	Total Period: 60 Total week: 15	End Sem exam: 15 Progressive assesment:35			
Scheduled Session: WINTER-2026 (01.07.2026 to 05.11.2026), AVAILABLE PERIOD: 68							
Month	Week	Period	Date	Topics/Experiment	Total Periods/Remarks		
JULY	1st	2P	01.07.2026	Briefing of Syllabus and Introduction to the course, its application			
		2P	02.07.2026	Identification of kick Indicators during drilling operations.			
	2nd	2P	08.07.2026	Identification of kick indicators during drilling operations.			
		2P	09.07.2026	Simulation of well shut-in procedures (hard and soft shut-in).			
	3rd	2P	15.07.2026	Simulation of well shut-in procedures (hard and soft shut-in).			
		2P	22.07.2026	Calculation of kill mud weight using the Driller's method.			
	4th	2P	23.07.2026	Calculation of kill mud weight using the Driller's method.			
		2P	29.07.2026	Calculation of kill mud weight using the Wait and Weight method.			
	5th	2P	30.07.2026	Calculation of kill mud weight using the Wait and Weight method.			
		AUGUST	2nd	2P	05.08.2026	Operation and function testing of blowout preventers (BOPs).	
2P	06.08.2026			Operation and function testing of blowout preventers (BOPs).			
3rd	2P		12.08.2026	Measurement of choke manifold pressures during well control simulations.			
	2P		13.08.2026	Measurement of choke manifold pressures during well control simulations.			
4th	2P		19.08.2026	Use of kill sheets for well control operations.			
	2P		20.08.2026	Use of kill sheets for well control operations.			
SEPTEMBER	1st		2P	02.09.2026	Simulation of volumetric well control methods.		
			Tentative 1st Internal Assesment in-between 01.09.2026 to 08.09.2026				
		2P	03.09.2026	Simulation of volumetric well control methods.			
	2nd	2P	09.09.2026	Determination of pressure losses in well control equipment.			
		2P	10.09.2026	Determination of pressure losses in well control equipmnt.			
	3rd	2P	17.09.2026	Evaluation of kick tolerance and casing design Implications.			
		2P	23.09.2026	Evaluation of kick tolerance and casing design Implications.			
	4th	2P	24.09.2026	Simulation of gas migration in wellbores.			
		2P	30.09.2026	Simulation of gas migration in wellbores.			
	OCTOBER	1st	2P	01.10.2026	Assessment of well control response times.		
2P			07.10.2026	Assessment of well control response times.			
2nd		2P	08.10.2026	Simulation of emergency disconnect systems (EDS) for subsea operations.			
		2P	14.10.2026	Simulation of emergency disconnect systems (EDS) for subsea operations.			
3rd		2P	15.10.2026	Analysis of well control incident case studies.			
		2P	21.10.2026	Analysis of well control incident case studies.			
4th		2P	22.10.2026	Testing of accumulator systems for BOP operation.			
		2P	28.10.2026	Testing of accumulator systems for BOP operation.			
5th		Tentative 2nd Internal Assesment in-between 26.10.2026 to 31.10.2026					
		2P	29.10.2026	Doubt Clearing/ Extra Class			
NOVEMBER	1st	2P	04.11.2026	Doubt Clearing/ Extra Class			
		2P	05.11.2026	Doubt Clearing/ Extra Class			

Prepared By: Er. Tapas Ranjan Sutar
Lect-II, Drilling


25-6-26
Lecturer (Stage-II)
Drilling Engineering
O.S.M.E., Keonjhar


25-6-26
PRINCIPAL
Orissa School of Mining Engineering
KEONJHAR